

CLAIMS:

1. An apparatus for producing hydrophobic silica fine powder, comprising:

5 a means for pyrolyzing a silane compound to form silica fine powder,

a means for agglomerating the silica fine powder,

a first cyclone and a first filter for collecting the agglomerated silica fine powder,

10 a fluidization vessel having a hydrophobizing section for hydrophobizing the collected silica fine power, and

a second cyclone and a second filter for collecting hydrophobic silica fine powder which flies out of the fluidization vessel, which second cyclone and second filter can each be held at a temperature of 100 to 500°C.